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APPLICATION OF FIELD FORENSIC SCIENCES IN THE GLOBAL WAR ON TERRORISM

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Elements of the Presentation

The U.S. Army Corps of Engineers, led by the Center of Expertise (Mandatory) for Curation and Management of Archeological Collections (CMAC), USAED, St. Louis:

- **Designed & implemented a program to excavate, analyze and report on mass graves in Iraq**
- **Developed processes and capabilities to perform field forensic science services for the treatment of human remains**
- **Assesses the Global need for a permanent USACE/CMAC mass grave forensic sciences team**

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The Iraq Mass Graves Team:

Origin, Organization and Areas of Operation

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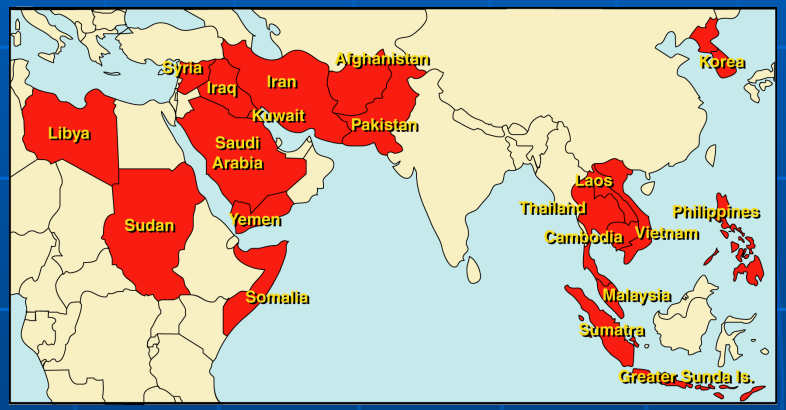
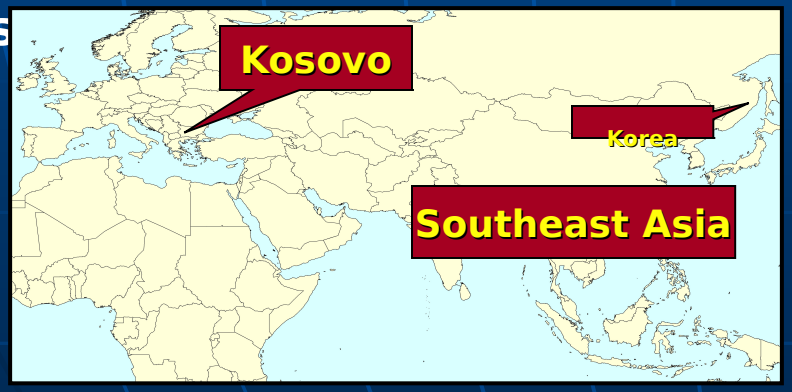
CMAC's Path to Iraq

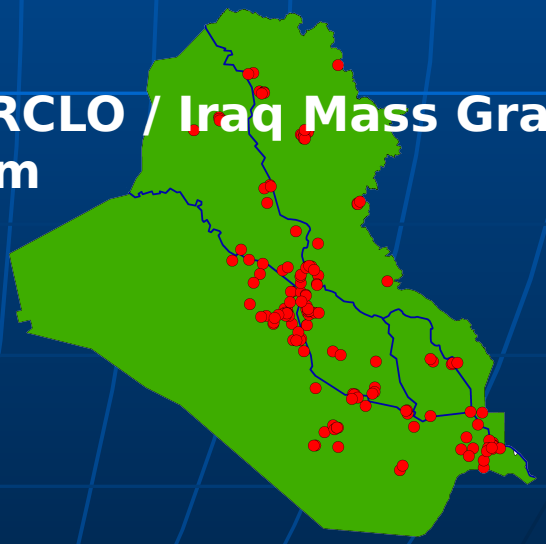
1. Cartographic & Data



2. International Forensic As



3. RCLO / Iraq Mass Graves Team



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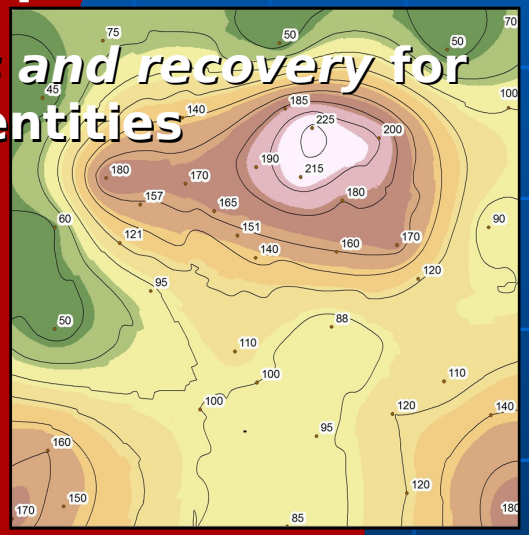
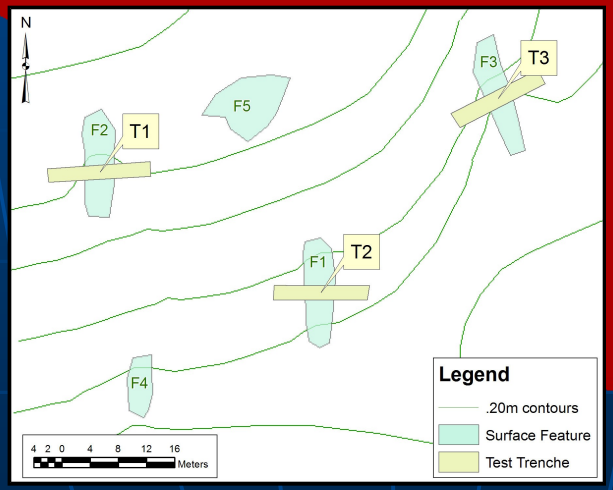
CMAC's Path to Iraq

Demonstration for the Department of [illegible]

Time sensitive *forensic surveys and recovery* for law enforcement entities





Iraq Mass Graves Team Functional Units

Archaeological Field Team

Forensic Analysis Team

Program Director

Field Director

Evidence Manager

Archaeologists

Forensic Anthropologists

Heavy Equipment Operator

Field Photographer

GIS Mapping and Survey

Deputy Director

Intake / Archives Manager

Cultural Objects Analysts

Forensic Anthropologists

Osteological Technicians

Forensic Pathologist

Database Manager

Imaging Systems Manager

Radiographer

NINAWA 2
NINAWA 9
MAYSAN 3
Baghdad
MUTHANNA 2
DHI QAR 8

Five Sites Investigated by Iraq Mass Graves Team

Ninawa 2……recovered 123 cases

Ninawa 9…… recovered 64 cases

Muthanna 2 ……recovered 114 cases

Maysan 3……recovered 4 cases

Dhi Qar 8……recovered 0 cases (28 bundles

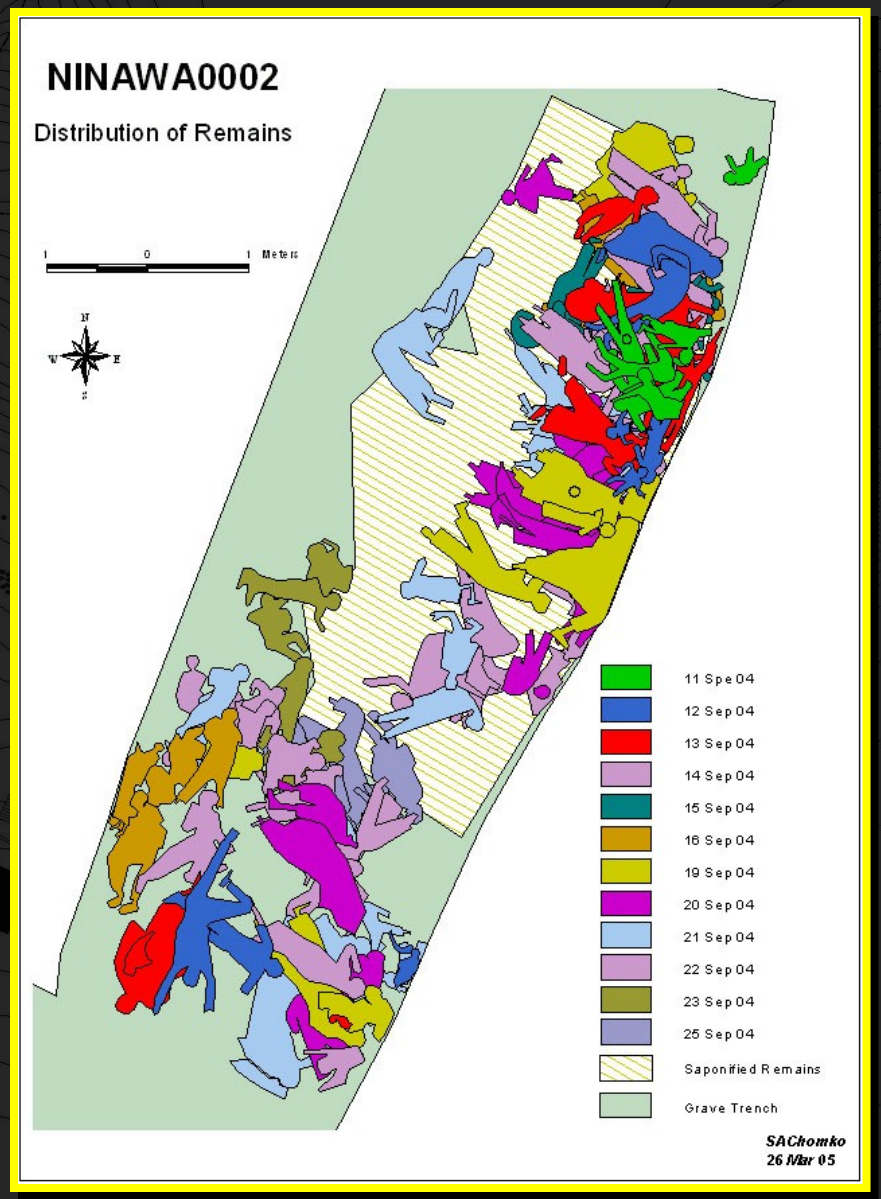
SITE NINAWA 2

Site excavated:
31 August 2004 – 11 October 2004

123 individuals exhumed

Execution by gunshot

Adult Males N = 0
Adult Females N = 25
Adolescents N = 10
Infants & Children N = 88



60 0 60 120 180 Meters

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The Iraq Mass Graves Team:

Process and Capabilities

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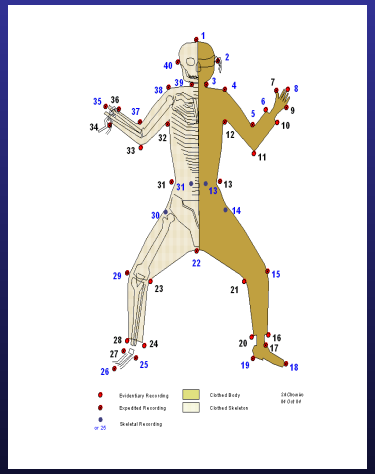
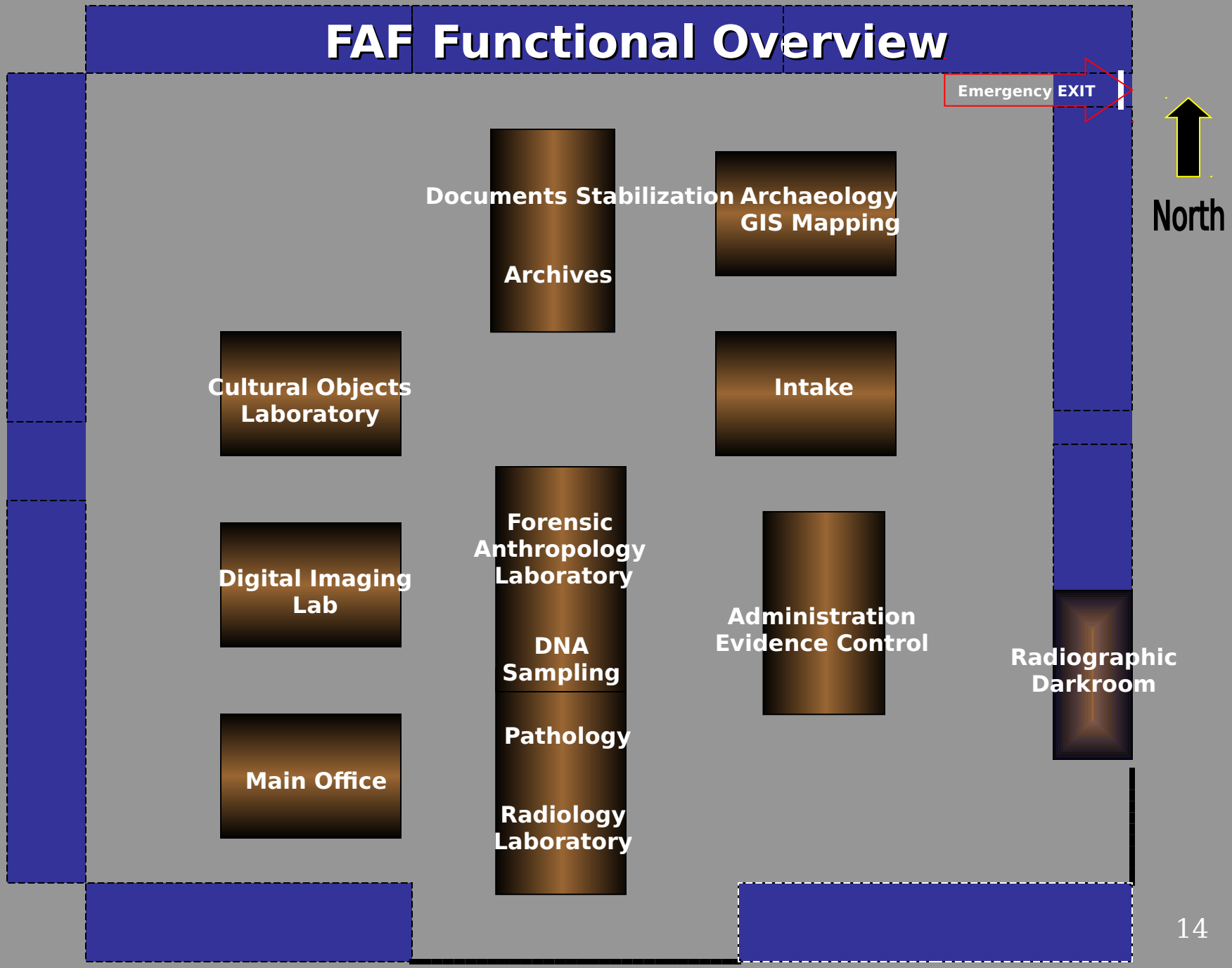
Archeology/Field Excavation and Recoveries



The Forensic Analysis Facility (FAF)

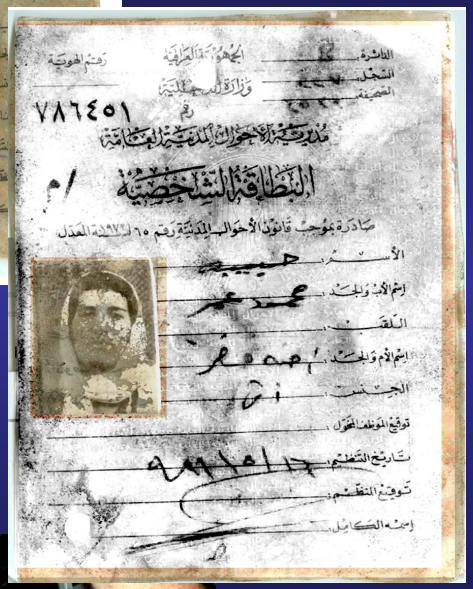
FAF Functional Overview



Cultural Objects

Forensic Anthropolog

Forensic Digital Imaging Document/Identity Recovery



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USACE Global Support for Field Forensic Sciences:

The Center of Expertise (Mandatory) for
Curation and Management of Archeological Collections
(CMAC)

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Capabilities

Primary capabilities developed by CMAC since 1995:

- **Cartographic Survey and Data Recovery**
- **GIS Data Management**
- **Forensic Analysis**
- **Mass Grave Recovery**

Ancillary capabilities include:

- **Forensic biological assessments**
- **Facial reconstruction**
- **Digital document enhancement**
- **Digital photograph enhancement for identification purposes**
- **Archival research**

Future Conditions

Executive, Defense, Intelligence and Law Enforcement Agencies will require:

- **National and international rapid response capability for special archaeological, forensic, and mass grave support**
- **Organization and maintenance of baseline archival data and associated databases related to both defense and humanitarian missions**
- **Capacity building training programs on forensic recovery, heritage stewardship, and humanitarian recovery**

CURRENTLY, NO COHERENT, PERMANENT, GOVERNMENT-WIDE CAPACITY EXISTS TO MEET THESE NEEDS

The Way Forward

**Revise the existing Charter of the Center of Expertise (Mandatory) for Curation and Management of Archeological Collections (CMAC),
USAED, St. Louis to :**

Establish a global CMAC mission to include:

- **Forensic Mass Graves / Casualty Investigations**
- **Mass Disaster Fatalities Recovery**
- **Forensic Assistance for Special Projects**
- **Archival / Cartographic Assistance**

Expand the national mission of CMAC to assist USACE in National Disaster Response